

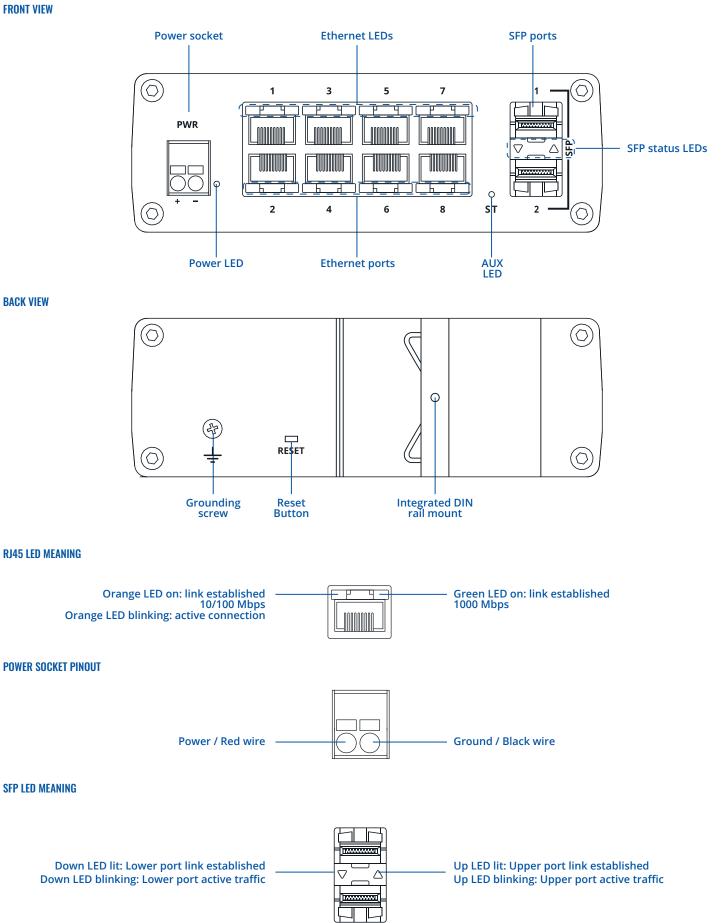




HARDWARE

FRONT VIEW

BACK VIEW





FEATURES

ETHERNET

Multi-layer managed 8 x LAN ports, 10/100/1000 Mbps supports auto MDI/MDIX crossover		
2 x SFP ports		
IEEE 802.1p, IEEE 802.1Q, 802.3az		
Yes		
MRP client role, MRP manager role		
Loop protection, Forwarding table, VLAN, STP/RSTP		
DHCP server, DHCP client		
Enable/disable, link speed control, port isolation, EEE (802.3az) management, Port Mirroring		
Static IPv4 routing, static IPv6 routing, DHCPv6 client, static IPv6 address		

QOS

QOS	Port priority, DSCP priority, 802.1p priority, TOS		
Scheduling method	SP/WFQ/WRR		
Bandwidth control	Rate limiting, storm control		
DIAGNOSTICS			

Tools

Cable diagnostic, ping, traceroute, nslookup

PERFORMANCE SPECIFICATIONS

Bandwidth (Non-blocking)	20 Gbps
Packet buffer	512 KB
MAC address table size	8K entries
Jumbo frame support	10000 bytes

SYSTEM CHARACTERISTICS

RAM	128MB, DDR3
FLASH storage	16MB serial flash

FIRMWARE / CONFIGURATION

WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup	
FOTA	Update FW	
RMS	Update FW, configuration for multiple devices at once	
Keep settings	Update FW without losing current configuration	
FIRMWARE CUSTOMISATION		

Operating system	TSWOS (OpenWrt based Linux OS)	
Supported languages	Busybox shell, Lua, C, C++	
Development tools	SDK package with build environment provided	



POWER

Connector	2-pin industrial DC power socket
Input voltage range	7 - 57 VDC
Power consumption	Idle: < 2.5 W / Max: 6 W

PHYSICAL INTERFACES

Ethernet	8 x RJ45 ports, 10/100/1000 Mbps		
Fibre	2 x SFP ports		
Status LEDs	1 x Power LED, 1 x Aux LED, 16 x LAN status LEDs, 2 x SFP status LEDs		
Power	1 x 2-pin industrial DC power socket		
Reset	Software reset button		
Grounding	Grounding screw		

PHYSICAL SPECIFICATION

Casing material	Anodized aluminum housing and panels		
Dimensions (W x H x D)	132 x 44.2 x 122.2 mm		
Weight	615 g		
Mounting options	Integrated DIN rail bracket, wall mounting (additional kit needed), flat surface placement		

OPERATING ENVIRONMENT

Operating temperature	-40 °C to 75 °C
Operating humidity	10 % to 90 % non-condensing
Ingress Protection Rating	IP30

REGULATORY & TYPE APPROVALS

Regulatory

CE, CB, RCM, FCC, IC,EAC, UCRF

EMC EMISSIONS & IMMUNITY

Standards	EN 55032:2015+A1:2020; EN 55035:2017+A11:2020; EN IEC 61000-6-2:2019		
ESD	EN 61000-4-2:2009		
Radiated Immunity	EN IEC 61000-4-3:2020		
EFT	EN 61000-4-4:2012		
Surge Immunity (AC Mains Power Port)	EN 61000-4-5:2014+A1:2017		
CS	EN 61000-4-6:2014		
DIP	EN IEC 61000-4-11:2020		

SAFETY

Standards

IEC 62368-1:2018



WHAT'S IN THE BOX?

STANDARD PACKAGE CONTAINS

- TSW212
- QSG (Quick Start Guide)
- Packaging box



STANDARD ORDER CODES

PRODUCT CODE	HS CODE	HTS CODE	PACKAGE CONTAINS	
TSW212 000000	851762	8517.62.00	Standard package	
For more information on all available packs	ging options places contact us directly			

For more information on all available packaging options - please contact us directly.



TSW212 SPATIAL MEASUREMENTS & WEIGHT

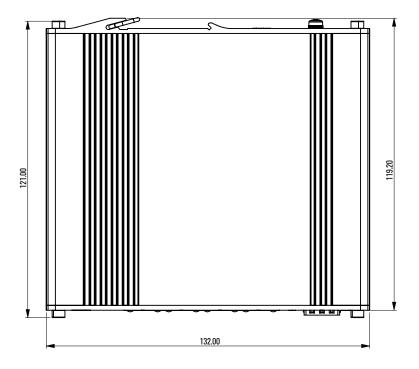
MAIN MEASUREMENTS

W x H x D dimensions for TSW212:	
Device housing*:	132 x 44.2 x 122.2 mm
Box:	125 x 136 x 47 mm

*Housing measurements are presented without screws; for measurements of other device elements look to the sections below.

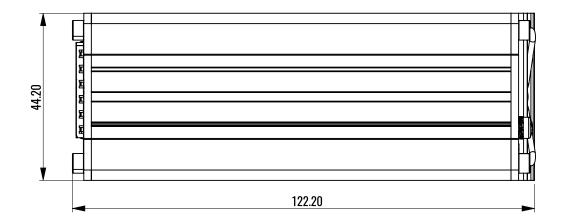
TOP VIEW

The figure below depicts the measurements of TSW212 and its components as seen from the top:



RIGHT VIEW

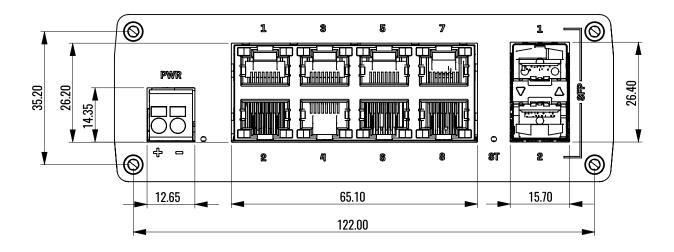
The figure below depicts the measurements of TSW212 and its components as seen from the right side:





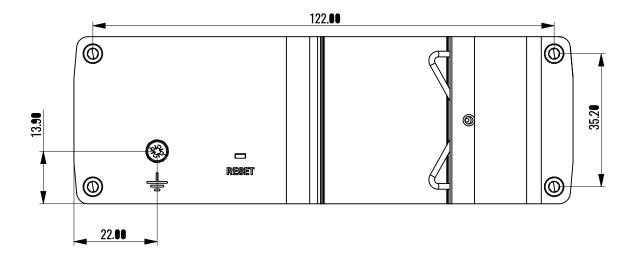
FRONT VIEW

The figure below depicts the measurements of TSW212 and its components as seen from the front panel side:



REAR VIEW

The figure below depicts the measurements of TSW212 and its components as seen from the back panel side:





MOUNTING SPACE REQUIREMENTS

The figure below depicts an approximation of the device's dimensions when cables are attached:

